AMENDMENTS TO THE DRAWINGS

The original first sheet of drawings have been replaced with two replacement sheets. The attached replacement sheets of drawings includes changes to Figures 1-4. Figure 1 has been changed to a perspective view. It is submitted that the new perspective view is consistent with the originally-submitted figures and does not add new matter to the application. The perspective view provides a better view of how the cross-sections of Figures 2 and 3 are taken relative to one another.

Figures 1 and 2 have been changed in that the section line 3-3 previously shown in Figure 2 has been moved to Figure 1.

Figures 2 and 4 have been changed to add lines extending parallel to the longitudinal axis. This change is to make the drawings consistent with one another. The cross-section of the exemplary handle was shown as polygonal in the originally-filed Figures 1 and 3. The new lines correspond to locations two sides of the polygon intersect one another.

Figure 3 has been changed to remove the reference numeral "14" to make the drawings consistent with one another. "14" is used to identify the longitudinal axis of the handle 10 in Figures 2 and 4.

Figure 3 has also been changed to include new reference numerals and two non-structural reference axis' to support new claim terminology.

REMARKS

After entry of this Amendment, claims 40 - 51 are pending in the application.

Prior to this Amendment, claims 1 - 8, 19 - 27, and 36 - 40 had been cancelled. In this

Amendment, claims 9 - 18 and 28 - 35 are cancelled. Claims 40 - 51 have been added are

directed to the elected invention shown in Figures 1-4. Reconsideration of the application as

amended is requested.

It is submitted that since all of the previously-pending claims have been

cancelled, the rejections set forth in the Office Action dated 04/10/2007 are moot. New claim 41

recites a hollow tube with a wall thickness that about a longitudinal axis and includes a first

range about the longitudinal axis of relatively thicker wall thickness and a second range about

the longitudinal axis of relatively thinner wall thickness, the first range and the second range

operably associated with one another whereby the hollow tube is operable to provide tactile

feedback to a user of the hollow tube as to the orientation of the hollow tube in the user's hand.

The capacity of the hollow tube to provide tactile feedback because of the arrangement of the

various wall thicknesses was set forth in the application as filed in several paragraphs, including

paragraphs [0007] and [0027], for example. The prior art of record fails to disclose or suggest

this feature and therefore fails to render claim 41 unpatentable.

The terms "operably associated" and "operable" have been incorporated in claim

41. These terms have been recognized as acceptable for claiming how structural elements are

related to one another to perform a designated function. In Innova/Pure Water Inc. v. Safari

Water Filtration Systems Inc., 72 USPQ2d 1001, 1006 (CAFC 2004), the Court stated that

"[operable] . . . is a general descriptive term frequently used in patent drafting to reflect a

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functional relationship between claimed components." The term "associated" was also

considered by the Court in Innova/Pure Water. The Court stated that "the word 'associated'

merely reflects that the recited elements be joined in some kind of relationship." Id. at 1009.

The decision in <u>Innova/Pure Water</u> also demonstrates that the function designated by the terms

"operably associated" and "operable" is given patentable weight. As applied to the present

matter, Innova/Pure Water requires that the function of providing "tactile feedback to a user of

the hollow tube as to the orientation of the hollow tube in the user's hand" be given patentable

weight.

The Examiner has acknowledged that Brine, U.S. Pat. No. 6,752,730, fails to

disclose or suggest a handle with variable wall thickness, much less a handle that is operable to

provide tactile feedback. See page 3, lines 1-4 and 17-20 of the 04/10/2007 Office Action.

Based on this deficiency of Brine, two alternative prima facie cases for obviousness have been

asserted, a first based on the combination of Brine in view of Matinlassi, U.S. Pat. No.

4,233,834, and a second based on the combination of Brine in view of Merola, U.S. Pat. No.

3,697,069.

Matinlassi discloses a method for making a zircaloy tube. A zircaloy tube is used

as cladding for nuclear reactor core structural components such as fuel and pressure tubes. The

Examiner is directed to U.S. Pat. No. 4,398,552 as confirming the purpose and function of

zircaloy tubes. The combination of Brine and Matinlassi is traversed as improper on several

grounds. First, the Examiner has failed to set forth a reason why the person of ordinary skill

would have combined Brine and Matinlassi. The Patent Office requires that a reason be given

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for making a combination of references:

Therefore, in formulating a rejection under 35 U.S.C. § 103(a) based upon a combination of prior art elements, it remains necessary to identify the reason why a person of ordinary skill in the art would have combined the prior art elements in the

manner claimed.

Memorandum; May 3, 2007; to Technology Center Directors from Margaret A. Focarino,

Deputy Commissioner for Patent Operations. The proposed reason for the combination is/are

"cost and design considerations." However, not even a single cost and/or design consideration is

articulated. Thus, the proposed reason appears to be nothing more than a label and not a

reasoned explanation for the combination. There is no cost or design consideration set forth in

the record that would point to the proposed combination.

Second, a combination of references must be made with analogous art. Art can be

characterized as "analogous" based on the field of endeavor, classification, the nature of problem

solved, or similarities and differences in structure and function. In this matter, none of those

criteria render Brine and Matinlassi analogous to one another:

• Brine is directed to a lacrosse stick and Matinlassi to a cold forming operation for metal.

Brine is classified in class 473, GAMES USING TANGIBLE PROJECTILE; Matinlassi

is classified in class 72, METAL DEFORMING. Class 473 does not reference to class

72 and class 72 does not reference to class 473.

Brine is directed to providing a handle with improved grip. '730 patent, column 1, lines

44 - 45. Matinlassi is directed to reducing eccentricity and spirality in zircaloy tubes.

'834 patent, column 1, lines 19 - 20 and 47 - 48.

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In Brine, the lacrosse handle is structured as a hollow shaft of polygonal cross-section

and functions by being grasped and moved by lacrosse player. In Matinlassi, the zircaloy

tube is structured as a hollow tube of generally circular cross-section and functions as

cladding for nuclear reactor core structural components including fuel and pressure tubes.

M.P.E.P. 2141.01(a) cites several cases that demonstrate mere structural similarity does

not render two references analogous; similar function must also be present.

Third, Matinlassi discloses that eccentricity, or varied wall thickness, is an

undesirable quality and thus teaches away from modifying Brine to include an eccentric wall

thickness:

Tubes of this type have been produced in the general manner described below, but

difficulty has been encountered because there is eccentricity in the wallthickness and spirality is produced with respect to the eccentricity. Column 1,

lines 26 - 31, (emphasis added).

When tubes of this type are placed into service, the eccentricity tends to result in

a bowing of the tube. The tubes are held in position by spacer grids which may be in the position to restrain the bowing action of the tubes. Column 1, lines 40

- 44, (emphasis added).

The present invention is directed toward reducing the eccentricity and the

spirality. Column 1, lines 47 – 48, (emphasis added).

Thus, the express and unambiguous disclosure of Matinlassi teaches away from an eccentric

wall.

Pursuant to M.P.E.P. § 706.02(j), Applicants request the Examiner to set forth the

specific relevant teachings of the prior art relied upon with reference to the relevant column or

page numbers and line numbers to support the prima facie case if the rejection is maintained.

Specifically, the Applicants request that the Examiner communicate (1) a specific cost or design

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consideration for making the combination of Brine and Matinlassi, (2) the basis for asserting that

Brine and Matinlassi are analogous, and (3) the disclosure in the record that rebuts the express

disclosure of Matinlassi that teaches away from eccentric walls. M.P.E.P. § 706.02(j) requires

clarity so that the Applicants may given a fair opportunity to reply.

Merola discloses a ball bat with eccentrically thickened walls. The Examiner

states that it would have been obvious to one of ordinary skill in the art at the time of the

invention to have employed the cross-sectional area of Merola with the shaft of Brine in order to

provide a stronger shaft for checking during play. However, combining Merola with Brine

would not result in lacrosse handle operable to provide to provide tactile feedback to a user of

said hollow tube as to the orientation of said hollow tube in the user's hand.

unambiguously discloses that a user of the ball bat will not appreciate the orientation of the ball

bat relative to the thickness section of the bat wall without visual inspection. At column 1,

Merola discloses:

swaged can thereby be used and the body of the bat 45 kept within acceptable weight limits. An indicia cam be placed on the bat to assist a batter in properly orienting

it, as is now done with wood bats where orientation of

the wood grain is recommended.

At column 3, Merola again acknowledges the failure of the ball bat to provide tactile feedback:

grain. A suitable external marking can be provided on the ball bat of the present invention is assisting the

batter to align the bat properly.

After the body 11 has been formed the vibration-35

Thus, none of the three references being asserted against the previously-pending claims disclose

or suggest the invention recited in claim 41.

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New claims 41 – 51 introduce new terminology. M.P.E.P. § 608.01(o) states the

"applicant is not limited to the nomenclature used in the application as filed" when selecting

claim terminology. In addition, M.P.E.P. § 2163.07(a) states that an application may be

amended to recite a function, theory or advantage that was inherent in the disclosed device and

that such amendments do not constitute new matter. The new terminology used in claims 41 –

51 is fully supported by Figure 4 as originally-filed. M.P.E.P. § 608.01(o) instructs that the

applicant should amend the specification whenever nomenclature in the specification is departed

from in order to have clear antecedent basis in the specification. This Amendment also includes

amendments to the specification in the form of new paragraphs [0026a] - [0026d] and an

amendment to paragraph [0027] to include the claim terminology selected by the Applicants.

Every sentence of the new paragraphs [0026a] – [0026d] finds support in Figure 4 as originally-

filed. This Amendment also includes replacement sheets with changes to Figure 4 to incorporate

new reference numerals introduced in new paragraphs [0026a] - [0026d].

amendments to the specification merely describe what was shown in Figure 4 as originally-filed.

It is submitted that the amendments have antecedent basis in the application as

filed and that the amendments do not add new matter to the application. It is further submitted

that the amendments place the claims of the application in suitable condition for allowance;

notice of which is respectfully requested. If the Examiner believes that prosecution of the

application can be expedited by way of an Examiner's amendment, the Examiner is invited to

contact the Applicants' attorney at the telephone number listed below.

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The under-signed attorney is acting pursuant to M.P.E.P. § 405.

Respectfully submitted,

Dickinson Wright PLLC Attorneys for Applicants

Date: August 10, 2007 By: /Raymond C. Meiers/

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